Thank you for purchasing the Gallagher TW-3 Weigh Scale unit. The Gallagher range of weighing systems is simple, tough, innovative and reliable.

**BONUS OFFER**
Register your product online at [www.gallagherams.com](http://www.gallagherams.com) to extend your warranty to two years for free.

Follow these instructions for the setup and first use of the TW-3.
Further information can be obtained by tapping ? when displayed on screen.

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**BOX CONTENTS**

The Gallagher TW-3 box contains:
- Carry Bag
- TW-3 weighing unit
- 110V - 230V Mains AC adapter
- USB cable
- USB flash drive
- 12V battery cable with alligator clips
- Mini Serial Adapter (2M1709)
- Mounting bracket and mounting hardware
**SPECIFICATION**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-20° to 50°C</td>
</tr>
<tr>
<td></td>
<td>-5° to 120°F</td>
</tr>
<tr>
<td>Environmental Protection Rating</td>
<td>IP67</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Estimated battery run time</td>
<td>16 hours at 60% brightness</td>
</tr>
<tr>
<td></td>
<td>12 hours at 100% brightness</td>
</tr>
</tbody>
</table>

**CHARGING THE BATTERY**

To ensure optimum performance of the TW-3, the internal battery may need to be charged for up to 16 hours before first time use.

**Important:** If the TW-3 is to be stored for an extended period, this should be in a cool dry place with a fully charged battery.

1. Connect the power adapter at the base of the unit and plug the TW-3 into a power outlet and switch **ON**. The charging icon will display on the screen.

   **Warning:** The power adaptor is intended for indoor use only. Do not expose to rain or dampness.

2. When the charge shows 100% the TW-3 is ready to use with or without the power adapter.

**Note:**
- When the TW-3 is in use, the battery icon will display and show remaining charge.
- When using the scale and the charge level falls below 10% the battery icon will flash with a red outline. You will have about 30 minutes to complete the weighing session before the TW-3 must be charged.
- When the charge level becomes critical the unit will shut down.
- To check remaining run time at current settings, from the Home screen, go to **Settings > About > Battery**.
UNDERSTANDING THE TW-3 WEIGHING UNIT

Find animal
Look up and add animal to a session

Remove animal
On-screen Help
Touch to display information about the current screen

Touch Screen
Tap the screen icons, field names or buttons to view or enter data.

Weigh button
Records animal weight

Zero button
Sets the displayed weight to zero.

Navigation keys
These buttons can be used to navigate the functions of the scale as an alternative to the touch screen.

Footer bar detail

Bluetooth status
Battery charge indicator

Weighing mode
AUTO - Automatic weight lock
MAN - Manual weight lock

Connections

Battery charger
USB port (connect to PC)
Serial port (for memory stick)
Loadbar connections
(mini adapter supplied to change connector sex)
INSTALLATION

Installing the TW-3

The TW-3 can be placed on a table top or mounted on the bracket supplied.

Installing the Scale bracket

The bracket can be mounted on a flat vertical surface, a round post, or a rail.

To mount the bracket on a flat vertical surface, or a round wooden post, use the 4 x tek screws included with the unit.

To mount the bracket on either a vertical or horizontal bar, use the ‘U’ bolts included with the unit.

Important:
It is not recommended to mount the TW-3 bracket on the weighing crate or chute as interaction with the scale can impair weighing performance.
Installing the loadbars

If using loadbars, follow these steps:

1. Select a weighing site that provides a solid, level and well drained surface.
2. Ensure the loadbars and platform are well secured and clear of any obstructions.
3. Either bolt the loadbars to the concrete pad or locate them on studs set into the concrete. It is important that the loadbars and platform sit flat without any rocking or twisting to avoid weighing inaccuracies.
   
   **Note:** It may be necessary to shim the loadbars or platform to ensure there are no twisting pressures within the platform. Weights should be evenly distributed over the top of the weigh bars.

4. Connect the loadbar cables to the TW-3.
   
   A beep will sound indicating a successful connection/disconnection of the loadbars.

**WARNING** – Do not weld the loadbars or any structure that they are attached to. Loadbars contain sensitive electronic devices which will be damaged by welding. **Damage caused by welding will void warranty.**

Position the TW-3:

- clear of the platform to ensure it does not interfere with the flow of animals during the weighing cycle
- within easy reach of the loadbar leads
- within easy reach of the operator (for manual weighing)
**FIRST TIME START-UP**

The first time the TW-3 is powered on, the **First Time Start-Up** screen will display. Tap the screen to update the language, time, date and weight fields as required and then tap **Save**.

<table>
<thead>
<tr>
<th>FIRST TIME START-UP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>English</td>
</tr>
<tr>
<td>Time Zone</td>
<td>New Zealand - NZST</td>
</tr>
<tr>
<td>Date</td>
<td>14-03-2017</td>
</tr>
<tr>
<td>Time</td>
<td>2:35 pm</td>
</tr>
<tr>
<td>Weight Unit</td>
<td>kg</td>
</tr>
</tbody>
</table>

To change any of these settings later, they can be accessed via **Settings** on the right of the **Home** screen.

For more information about this screen or any TW-3 screen, tap ? displayed in the top right corner of the screen. This will display the On-screen Help with more information about what you see on the screen.

**Note**: The navigation keys on the keypad can be used at any time to select the TW-3 functions, as an alternative to the touch screen.

**Auto Shutdown**

When the TW-3 is left idle for more than 30 minutes it will automatically shutdown to preserve the battery.

Press the **Power** button to turn the unit back on.

**Note**: When the battery charger is connected, the TW-1 will not shutdown after the inactivity period. The screen will remain active.
Connecting to an EID Reader

The EID Reader can be connected to the TW-3 by either a serial cable or via Bluetooth®.

1. Turn On the EID Reader.
2. Turn On the TW-3.
3. On the TW-3, tap Settings > Equipment Connections > EID Reader.
4. Select how the Reader is being connected, either via Bluetooth or using a serial cable.

   **Note:** A mini serial adapter is included with the TW-3 if a female serial connection is required.

**Important:** The TW-3 can also be connected to via Bluetooth as a “Slave”, by initiating the connection from the reader. A passcode of “0000” may be required to complete this connection.

Refer to Bluetooth – Connect EID Reader in the TW-3 On-screen Help or your EID Reader User Manual for further information on pairing the reader.

Connecting to a Drafter/Sorter

To connect the TW-3 to a drafter, use the data cables supplied with your drafter. Refer to your Drafter User Manual for more information.

1. Turn On the TW-3.
2. On the TW-3, tap Settings > Equipment Connections > Drafter.
3. Specify the type of drafter that is being connected, to complete the setup.

   If your drafter is not listed, tap Create Custom and follow the configuration wizard set up your drafter.
START A SESSION

When you gather information about an animal, it is recorded in a Session. Each event such as weighing, adds a record to the current session.

A template using pre-determined defaults can be set up and used each time you start a new session.

**Note:** It is recommended a new session is opened for a new day’s activity or for a new group of animals. An animal cannot appear within the same session more than once.

**To start a new session:**

1. From the Home screen, tap **New**. The New Session screen is displayed.
2. Tap **Quick Start** to open the Weigh screen with the scale default settings.
   **Note:** To set up and use templates, refer to the TW-3 On-Screen Help.
3. Load the animal onto the platform.
4. If required, you can record the animal’s Visual Tag Number or scan an Electronic ID.
5. If weighing in **AUTO** - Automatic weight lock, the scale will lock on to the weight and hold it on the screen until the animal leaves the platform.
   
   **Important:** If the weight displayed does not always return to **0.0** after weighing, check for dirt or manure that may have been left on the platform.

   The TW-3 can be re-zeroed by pressing **>0<**.

   **To customize the session:**
   click on the **OPTIONS** button at the lower left of the screen. Here you can set up the weighing mode, drafting options, traits and name for the session. Refer to **Session Options** (p. 9) for more information.

6. Move the animal off the platform.

   **Important:** If the weight displayed does not always return to **0.0** after weighing, check for dirt or manure that may have been left on the platform.

   The TW-3 can be re-zeroed by pressing **>0<**.
Gallagher TW-3 Weigh Scale **Quick Start Guide**

**Notes:**
- When the weight locks, there will be a beep (if turned on in Settings) and a red light above the Weigh button displays briefly.
- Other information, for example: Notes, can be entered once the weight has locked or an ID has been entered.
- In either mode, you can re-weigh an animal by pressing **Weigh** after a successful weight lock.
- If drafting is turned on, the gate number and group will display, in top right corner of the screen, indicating the drafting category. Tap this box to override the drafting decision.
- By default the scale will automatically zero any debris left on the platform between 2-5kg depending on the capacity of your loadbars. This can be altered in the connected loadbar settings.
- If using traits within a session, the selected traits will appear down the right side of the screen. A maximum of 3 traits can be used in any one session. Once an animal is identified, simply tap the trait box to assign a value.

**Session Options**

The Session Options menu is used to configure settings for the current session.

1. From this screen, tap the required option to change the session name, turn drafting On or Off, add traits to the session, change the weight lock mode and configure **Advanced** settings.
2. Tap **Save** to keep any changes.

**Note:** Use the **On Screen Help** for step by step information to set up drafting, add traits to the session or to configure the Advanced settings.

New traits are set up in the **Settings** menu before they can be added to a session.
VIEW ANIMAL INFORMATION

The information collected during a session can be viewed from the session’s Weigh screen.

To view information about all the animals in the session;

- tap All Animals,
- tap Session Stats.

Tap to view weight range of animals.

To view information about an individual animal weighed;

- tap Animals.

Tap an animal VID to view this animal on the Weigh screen.

Tap to view the history of weights for the selected animal, from the Weigh screen.
The TW-3 is a tough and reliable product designed for use in typical livestock environments. Proper care and maintenance can extend its life.

Listed below are guidelines for keeping the TW-3 in good condition.

- Do not submerge the TW-3 in any liquid.
- Store in a cool, dry place. Avoid storing in direct sunlight.
- After use, clean with a damp cloth. Take care not to scratch the display.
- If storing the TW-3 for a long time, store with the battery charged.

Software Updates

It is important to update the TW-3 software from time to time to ensure you have the latest enhancements. Updates are regularly released to enhance the features of the scale or to correct issues.

These updates can be accessed from the following website:

http://am.gallagher.com/downloads/

Follow the steps below to update the Weigh Scale software:

1. Download the updater file from the website and save to a USB flash drive.
2. Turn the TW-3 off.
3. Insert the USB flash drive and turn on the TW-3.
   The scale will recognise there is a USB stick inserted and begin the upgrade process.
4. Follow the instructions on the screen to complete the update.

CONNECTING THE TW-3 TO A COMPUTER

In order to transfer data on or off the TW-3, you need to establish a connection between the TW-3 and a PC/laptop that has Animal Performance Software (APS) software installed.

- Plug the USB cable supplied into the TW-3.
- Plug the other end of the cable into a USB COM port on your computer.
- Turn on the TW-3.
- Use APS to complete the connection and transfer information to and from the TW-3.

See the APS Standard User Manual for further details.

Note: It is also possible to connect the TW-3 to a PC using a WiFi connection. Firewall settings may need to be adjusted to allow this connection.
APPROVALS AND STANDARDS

This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by Gallagher Group Limited could void the user’s authority to operate the equipment.

Industry Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (IC: 7369A-G0260X) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna Types:
- BR600 Small Antenna Panel (G03121)
- BR1300 Large Antenna Panel (G031424)
- Sheep Auto Drafter Antenna Panel (G05714)

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